

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P895224

Luminaire Tested: 8TMB-8SL-FLTU-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-FLTU-UNV-L850
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 500
Light Source: -
Ballast/Driver: -

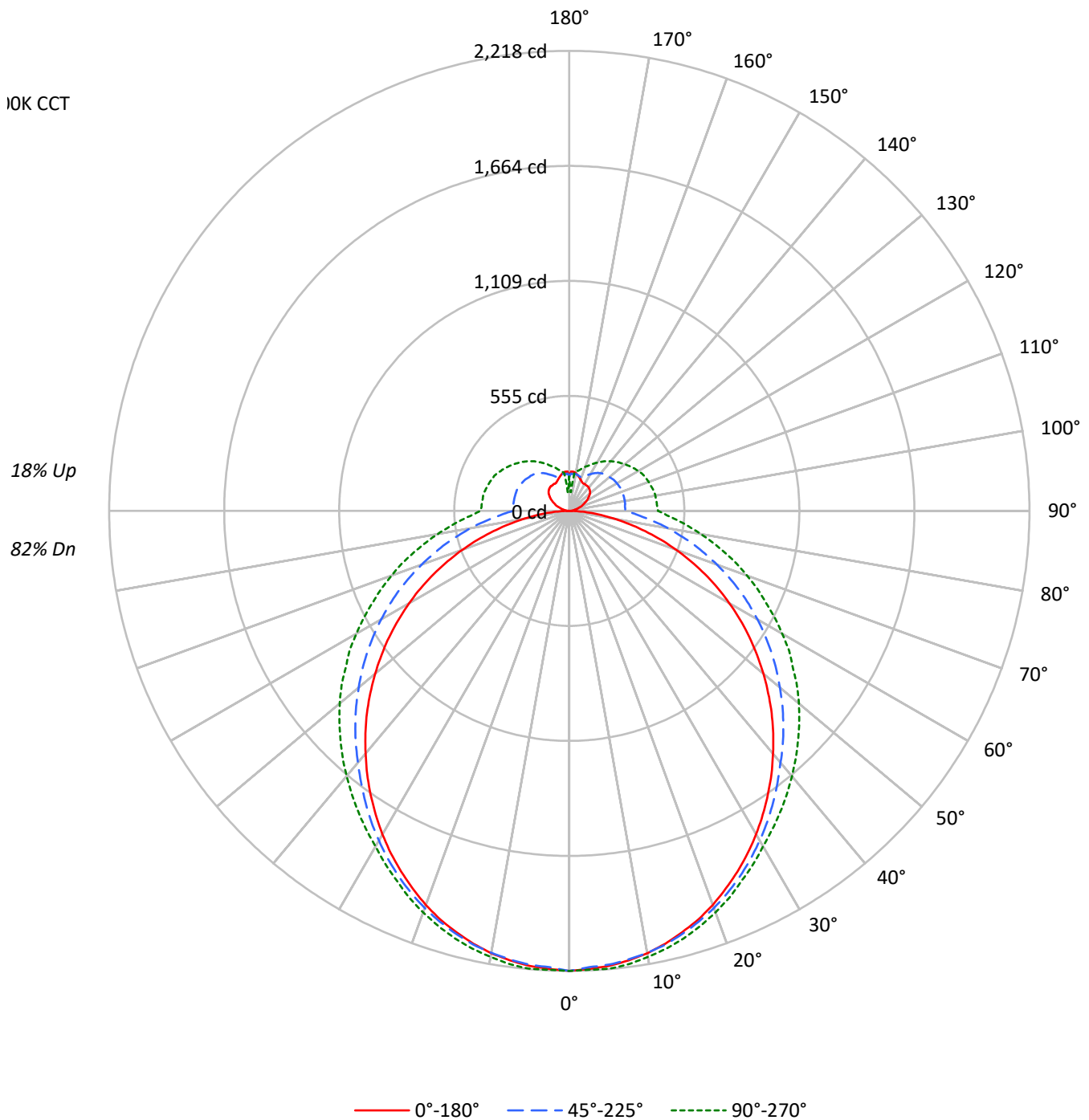
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8386.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 59.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	69	69	69	66
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	57	57	54
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	41	41	38
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	35	35	32
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	31	31	28
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	27	27	25
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	24	24	22
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7870	7870	7870
5°	7825	7553	7532
10°	7767	7274	7175
15°	7671	6993	6833
20°	7562	6704	6486
25°	7420	6402	6134
30°	7269	6092	5813
35°	7101	5780	5549
40°	6923	5473	5297
45°	6746	5206	5057
50°	6540	4929	4823
55°	6318	4656	4562
60°	6051	4364	4315
65°	5734	4055	4035
70°	5314	3716	3775
75°	4732	3368	3493
80°	3965	2996	3205
85°	2985	2617	2941

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6746 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	2.5
10°-20°	598.3	7.1
20°-30°	898.9	10.7
30°-40°	1079.3	12.9
40°-50°	1134.9	13.5
50°-60°	1066.4	12.7
60°-70°	886.7	10.6
70°-80°	632.7	7.5
80°-90°	376.6	4.5
90°-100°	272.6	3.3
100°-110°	269.0	3.2
110°-120°	252.7	3.0
120°-130°	223.9	2.7
130°-140°	185.6	2.2
140°-150°	138.9	1.7
150°-160°	91.3	1.1
160°-170°	51.8	0.6
170°-180°	16.5	0.2
0°-30°	1706.9	20.4
0°-40°	2786.3	33.2
0°-60°	4987.6	59.5
0°-90°	6883.7	82.1
90°-120°	794.3	9.5
90°-150°	1342.7	16.0
90°-180°	1502.0	17.9
0°-180°	8386.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2218	2218	2218	2218	2218	
5°	2202	2228	2196	2202	2216	209
15°	2103	2135	2111	2125	2133	593
25°	1918	1955	1945	1963	1967	884
35°	1669	1708	1714	1756	1773	1044
45°	1380	1418	1459	1534	1560	1063
55°	1060	1102	1189	1286	1315	947
65°	721	780	904	1017	1045	713
75°	379	464	618	737	776	402
85°	95	209	363	484	525	104
90°	0	120	269	387	427	7
95°	10	126	269	383	423	12
105°	38	140	272	379	415	41
115°	75	152	269	363	399	75
125°	113	162	261	340	367	101
135°	140	170	247	310	332	108
145°	148	166	223	276	292	93
155°	150	168	188	233	247	70
165°	172	182	176	178	207	48
175°	190	188	178	152	91	18
180°	166	166	166	166	166	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2218.2	2218.2	2218.2	2218.2	2218.2	2218.2	2218.2	2218.2	2218.2	2218.2	2218.2
2.5°	2210.1	2216.2	2218.2	2238.5	2230.4	2238.5	2224.3	2208.1	2204.1	2214.2	2202.0
5°	2202.0	2208.1	2210.1	2230.4	2222.3	2228.4	2216.2	2200.0	2196.0	2208.1	2196.0
7.5°	2185.8	2191.9	2193.9	2216.2	2206.1	2214.2	2200.0	2183.8	2181.8	2193.9	2181.8
10°	2165.6	2171.6	2173.7	2193.9	2185.8	2193.9	2179.7	2163.5	2161.5	2175.7	2163.5
12.5°	2137.2	2143.3	2147.3	2167.6	2157.5	2167.6	2151.4	2135.2	2137.2	2149.4	2141.3
15°	2102.8	2110.9	2112.9	2133.2	2125.1	2135.2	2119.0	2102.8	2106.8	2119.0	2110.9
17.5°	2066.3	2074.4	2076.4	2094.7	2086.6	2098.7	2080.5	2066.3	2070.4	2082.5	2076.4
20°	2021.7	2029.8	2033.9	2052.1	2044.0	2056.2	2037.9	2025.8	2029.8	2044.0	2037.9
22.5°	1971.1	1983.2	1985.3	2005.5	1995.4	2007.6	1989.3	1979.2	1985.3	1999.5	1993.4
25°	1918.4	1930.6	1932.6	1952.9	1944.8	1954.9	1936.7	1926.5	1934.6	1948.8	1944.8
27.5°	1861.7	1873.9	1877.9	1896.1	1888.0	1900.2	1879.9	1873.9	1882.0	1896.1	1892.1
30°	1800.9	1813.1	1815.1	1833.3	1827.3	1839.4	1821.2	1813.1	1825.2	1839.4	1835.4
32.5°	1736.1	1748.3	1754.3	1770.5	1764.5	1774.6	1758.4	1754.3	1764.5	1778.6	1776.6
35°	1669.3	1681.4	1687.5	1705.7	1697.6	1707.7	1691.5	1687.5	1703.7	1713.8	1713.8
37.5°	1600.4	1612.5	1618.6	1636.8	1626.7	1638.9	1622.7	1620.6	1638.9	1649.0	1649.0
40°	1527.4	1541.6	1547.7	1563.9	1555.8	1565.9	1551.8	1553.8	1570.0	1582.1	1584.2
42.5°	1454.5	1468.7	1474.8	1493.0	1482.9	1493.0	1480.9	1482.9	1501.1	1513.3	1523.4
45°	1379.6	1391.7	1397.8	1418.1	1405.9	1418.1	1405.9	1409.9	1428.2	1446.4	1458.6
47.5°	1300.6	1312.7	1322.8	1339.0	1328.9	1339.0	1330.9	1337.0	1359.3	1377.5	1393.7
50°	1221.6	1233.7	1243.8	1258.0	1247.9	1262.1	1251.9	1260.0	1288.4	1306.6	1324.9
52.5°	1140.5	1150.6	1166.9	1175.0	1166.9	1183.1	1175.0	1187.1	1215.5	1237.8	1258.0
55°	1059.5	1069.6	1085.8	1091.9	1083.8	1102.0	1096.0	1112.2	1142.5	1166.9	1189.1
57.5°	976.4	986.6	1000.7	1006.8	1000.7	1021.0	1019.0	1037.2	1067.6	1093.9	1118.2
60°	891.3	901.5	913.6	919.7	919.7	940.0	940.0	962.2	994.7	1019.0	1047.3
62.5°	808.3	814.4	826.5	834.6	840.7	861.0	861.0	885.3	919.7	948.1	976.4
65°	721.2	727.3	737.4	747.5	757.6	779.9	782.0	808.3	842.7	871.1	903.5
67.5°	634.1	640.1	650.3	662.4	676.6	698.9	702.9	731.3	767.8	800.2	830.6
70°	549.0	551.0	563.2	579.4	595.6	617.9	623.9	654.3	692.8	725.2	757.6
72.5°	463.9	465.9	478.1	498.3	516.6	540.9	549.0	581.4	619.9	652.3	684.7
75°	378.8	380.8	397.1	421.4	441.6	463.9	474.0	508.5	547.0	581.4	617.9
77.5°	297.8	301.8	318.0	342.4	366.7	393.0	403.1	437.6	480.1	512.5	547.0
80°	222.8	226.9	245.1	271.5	297.8	322.1	334.3	368.7	413.3	445.7	484.2
82.5°	154.0	160.0	182.3	210.7	237.0	263.4	275.5	307.9	348.4	384.9	421.4
85°	95.2	103.3	125.6	156.0	184.3	208.7	220.8	255.2	293.7	328.2	362.6
87.5°	44.6	56.7	79.0	109.4	139.8	160.0	174.2	208.7	245.1	279.6	314.0
90°	0.0	18.2	40.5	70.9	101.3	119.5	135.7	168.1	204.6	237.0	269.4
92.5°	4.1	20.3	44.6	72.9	103.3	121.5	137.8	170.2	204.6	237.0	269.4
95°	10.1	22.3	46.6	77.0	107.4	125.6	139.8	172.2	206.6	239.0	269.4
97.5°	18.2	28.4	52.7	81.0	111.4	127.6	143.8	176.2	208.7	241.1	271.5
100°	24.3	32.4	56.7	85.1	115.5	131.7	147.9	178.3	210.7	243.1	271.5
102.5°	30.4	40.5	62.8	89.1	119.5	135.7	149.9	180.3	212.7	243.1	271.5
105°	38.5	46.6	66.9	95.2	123.6	139.8	154.0	184.3	214.7	245.1	271.5
107.5°	46.6	52.7	72.9	99.3	127.6	141.8	156.0	186.4	216.8	245.1	271.5
110°	56.7	60.8	79.0	103.3	129.7	145.9	160.0	188.4	216.8	245.1	271.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	66.9	66.9	85.1	107.4	133.7	147.9	162.1	190.4	218.8	245.1	271.5
115°	75.0	77.0	91.2	111.4	137.8	151.9	164.1	190.4	218.8	245.1	269.4
117.5°	85.1	85.1	99.3	115.5	139.8	154.0	168.1	192.4	218.8	243.1	267.4
120°	95.2	93.2	105.3	121.5	143.8	156.0	170.2	194.5	218.8	243.1	265.4
122.5°	105.3	101.3	109.4	125.6	145.9	160.0	170.2	194.5	218.8	241.1	263.4
125°	113.4	109.4	115.5	131.7	149.9	162.1	172.2	194.5	218.8	239.0	261.3
127.5°	121.5	117.5	123.6	135.7	151.9	162.1	174.2	194.5	218.8	237.0	257.3
130°	129.7	123.6	131.7	139.8	156.0	164.1	174.2	194.5	216.8	235.0	253.2
132.5°	135.7	129.7	137.8	143.8	158.0	166.1	176.2	194.5	214.7	233.0	251.2
135°	139.8	133.7	143.8	147.9	162.1	170.2	178.3	194.5	212.7	230.9	247.1
137.5°	143.8	135.7	147.9	151.9	164.1	172.2	178.3	192.4	210.7	226.9	243.1
140°	145.9	139.8	151.9	156.0	162.1	170.2	178.3	190.4	206.6	222.8	237.0
142.5°	147.9	139.8	154.0	158.0	162.1	168.1	176.2	186.4	202.6	216.8	230.9
145°	147.9	141.8	154.0	158.0	162.1	166.1	172.2	184.3	196.5	208.7	222.8
147.5°	147.9	143.8	156.0	160.0	164.1	164.1	168.1	180.3	190.4	202.6	214.7
150°	149.9	143.8	156.0	160.0	166.1	166.1	168.1	174.2	186.4	194.5	204.6
152.5°	147.9	145.9	154.0	162.1	166.1	168.1	168.1	170.2	180.3	188.4	196.5
155°	149.9	149.9	156.0	166.1	168.1	168.1	170.2	168.1	172.2	180.3	188.4
157.5°	154.0	158.0	158.0	168.1	172.2	172.2	174.2	172.2	170.2	172.2	180.3
160°	160.0	164.1	164.1	170.2	176.2	176.2	178.3	176.2	174.2	172.2	172.2
162.5°	166.1	170.2	170.2	172.2	178.3	180.3	182.3	180.3	178.3	174.2	172.2
165°	172.2	176.2	176.2	176.2	180.3	182.3	184.3	182.3	182.3	178.3	176.2
167.5°	178.3	182.3	182.3	180.3	182.3	184.3	186.4	184.3	184.3	182.3	178.3
170°	184.3	188.4	188.4	184.3	186.4	186.4	188.4	186.4	186.4	182.3	180.3
172.5°	188.4	192.4	190.4	188.4	188.4	188.4	188.4	186.4	184.3	180.3	180.3
175°	190.4	194.5	194.5	190.4	188.4	188.4	190.4	186.4	184.3	182.3	178.3
177.5°	190.4	194.5	194.5	190.4	190.4	188.4	190.4	188.4	188.4	184.3	180.3
180°	166.1	166.1	166.1	166.1	166.1	166.1	166.1	166.1	166.1	166.1	166.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2218.2	2218.2	2218.2	2218.2	2218.2	2218.2	2218.2	2218.2	2218.2	2218.2
2.5°	2210.1	2208.1	2196.0	2210.1	2210.1	2206.1	2222.3	2220.3	2218.2	2214.2
5°	2202.0	2200.0	2187.9	2202.0	2202.0	2200.0	2216.2	2218.2	2220.3	2216.2
7.5°	2189.9	2187.9	2175.7	2189.9	2189.9	2187.9	2206.1	2208.1	2210.1	2204.1
10°	2171.6	2169.6	2157.5	2171.6	2173.7	2171.6	2185.8	2187.9	2191.9	2183.8
12.5°	2147.3	2147.3	2135.2	2149.4	2151.4	2149.4	2163.5	2167.6	2171.6	2161.5
15°	2116.9	2119.0	2108.8	2123.0	2125.1	2125.1	2139.2	2141.3	2147.3	2133.2
17.5°	2080.5	2084.5	2076.4	2090.6	2092.6	2094.7	2102.8	2108.8	2114.9	2098.7
20°	2042.0	2044.0	2037.9	2050.1	2054.2	2052.1	2062.3	2070.4	2076.4	2060.2
22.5°	1995.4	1997.4	1991.4	2003.5	2007.6	2009.6	2017.7	2027.8	2031.9	2017.7
25°	1942.7	1950.8	1946.8	1958.9	1963.0	1963.0	1971.1	1981.2	1987.3	1967.0
27.5°	1892.1	1902.2	1898.2	1910.3	1914.4	1916.4	1920.4	1932.6	1938.7	1920.4
30°	1835.4	1847.5	1845.5	1857.6	1861.7	1859.7	1867.8	1879.9	1888.0	1867.8
32.5°	1772.6	1788.8	1786.7	1803.0	1807.0	1809.0	1815.1	1831.3	1839.4	1821.2
35°	1711.8	1730.0	1732.0	1750.3	1756.4	1758.4	1766.5	1782.7	1790.8	1772.6
37.5°	1649.0	1673.3	1679.4	1697.6	1703.7	1705.7	1713.8	1732.0	1740.2	1721.9
40°	1588.2	1616.6	1624.7	1640.9	1647.0	1653.0	1659.1	1677.4	1687.5	1669.3
42.5°	1527.4	1557.8	1568.0	1584.2	1590.2	1596.3	1604.4	1624.7	1632.8	1616.6
45°	1464.6	1497.1	1509.2	1525.4	1533.5	1539.6	1547.7	1565.9	1576.1	1559.9
47.5°	1401.8	1434.3	1446.4	1464.6	1472.7	1480.9	1486.9	1509.2	1519.3	1503.1
50°	1335.0	1371.5	1385.6	1401.8	1414.0	1420.1	1428.2	1448.4	1458.6	1444.4
52.5°	1268.1	1306.6	1322.8	1339.0	1351.2	1361.3	1365.4	1387.7	1397.8	1383.6
55°	1199.3	1237.8	1256.0	1274.2	1286.4	1298.5	1302.6	1324.9	1335.0	1314.7
57.5°	1130.4	1170.9	1189.1	1209.4	1219.5	1233.7	1239.8	1260.0	1270.2	1256.0
60°	1061.5	1100.0	1122.3	1140.5	1154.7	1166.9	1170.9	1193.2	1203.3	1185.1
62.5°	990.6	1031.1	1053.4	1073.7	1085.8	1100.0	1106.1	1126.3	1134.4	1116.2
65°	917.7	958.2	982.5	1000.7	1016.9	1029.1	1033.2	1055.4	1063.5	1045.3
67.5°	844.8	885.3	911.6	931.9	946.0	960.2	964.3	986.6	994.7	980.5
70°	773.9	814.4	840.7	865.0	875.1	889.3	895.4	915.7	923.8	911.6
72.5°	702.9	743.5	771.8	796.1	806.3	820.4	828.5	844.8	856.9	846.8
75°	634.1	674.6	702.9	727.3	737.4	751.6	759.7	775.9	784.0	775.9
77.5°	567.2	607.7	634.1	658.4	670.5	682.7	690.8	707.0	717.1	709.0
80°	502.4	542.9	569.2	591.5	603.7	615.8	623.9	642.2	650.3	644.2
82.5°	441.6	480.1	508.5	530.8	542.9	555.1	563.2	579.4	589.5	581.4
85°	386.9	425.4	451.8	474.0	484.2	496.3	504.4	520.6	528.7	524.7
87.5°	334.3	368.7	399.1	421.4	431.5	443.6	453.8	465.9	476.1	470.0
90°	293.7	324.1	352.5	374.8	386.9	399.1	411.2	423.4	431.5	427.4
92.5°	295.8	324.1	350.5	370.7	382.9	395.0	407.2	421.4	427.4	423.4
95°	295.8	324.1	350.5	370.7	382.9	395.0	407.2	421.4	427.4	423.4
97.5°	295.8	324.1	350.5	370.7	382.9	395.0	407.2	421.4	427.4	421.4
100°	295.8	324.1	350.5	370.7	382.9	393.0	405.2	419.3	425.4	421.4
102.5°	295.8	324.1	348.4	368.7	380.8	391.0	403.1	417.3	423.4	419.3
105°	295.8	322.1	348.4	366.7	378.8	389.0	401.1	413.3	419.3	415.3
107.5°	293.7	320.1	344.4	364.6	374.8	384.9	397.1	409.2	415.3	411.2
110°	293.7	318.0	342.4	360.6	370.7	380.8	393.0	405.2	411.2	407.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	291.7	316.0	340.3	356.5	366.7	376.8	386.9	401.1	407.2	403.1
115°	289.7	314.0	336.3	352.5	362.6	370.7	382.9	397.1	401.1	399.1
117.5°	287.7	309.9	332.2	348.4	358.6	366.7	376.8	389.0	395.0	393.0
120°	285.6	305.9	328.2	342.4	352.5	360.6	368.7	380.8	386.9	382.9
122.5°	281.6	301.8	324.1	338.3	346.4	354.5	362.6	372.7	378.8	376.8
125°	277.5	297.8	318.0	332.2	340.3	346.4	354.5	364.6	368.7	366.7
127.5°	273.5	293.7	312.0	324.1	334.3	340.3	346.4	356.5	360.6	358.6
130°	269.4	287.7	305.9	318.0	326.2	332.2	338.3	348.4	350.5	350.5
132.5°	265.4	281.6	299.8	312.0	320.1	324.1	330.2	338.3	342.4	340.3
135°	261.3	275.5	293.7	303.9	309.9	316.0	322.1	330.2	332.2	332.2
137.5°	255.2	269.4	285.6	295.8	301.8	305.9	312.0	320.1	322.1	322.1
140°	249.2	263.4	277.5	285.6	293.7	297.8	301.8	309.9	312.0	312.0
142.5°	243.1	255.2	269.4	277.5	285.6	287.7	293.7	299.8	301.8	301.8
145°	235.0	249.2	261.3	269.4	275.5	277.5	283.6	289.7	289.7	291.7
147.5°	224.9	237.0	253.2	259.3	265.4	267.4	273.5	277.5	279.6	279.6
150°	214.7	226.9	241.1	251.2	257.3	259.3	261.3	267.4	267.4	269.4
152.5°	204.6	214.7	228.9	239.0	247.1	249.2	251.2	255.2	255.2	257.3
155°	194.5	202.6	214.7	224.9	233.0	237.0	241.1	245.1	245.1	247.1
157.5°	186.4	194.5	204.6	212.7	218.8	224.9	230.9	235.0	235.0	235.0
160°	176.2	182.3	192.4	198.5	206.6	210.7	220.8	224.9	224.9	226.9
162.5°	170.2	172.2	178.3	184.3	190.4	194.5	204.6	214.7	214.7	216.8
165°	172.2	170.2	172.2	174.2	178.3	180.3	186.4	200.6	204.6	206.6
167.5°	176.2	170.2	170.2	170.2	174.2	174.2	180.3	188.4	202.6	198.5
170°	176.2	170.2	166.1	166.1	168.1	166.1	170.2	176.2	184.3	192.4
172.5°	178.3	172.2	166.1	158.0	160.0	158.0	154.0	154.0	156.0	182.3
175°	176.2	172.2	164.1	154.0	151.9	145.9	133.7	123.6	117.5	91.2
177.5°	174.2	168.1	162.1	154.0	149.9	143.8	129.7	113.4	97.2	93.2
180°	166.1	166.1	166.1	166.1	166.1	166.1	166.1	166.1	166.1	166.1



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.88	16.19	15.49	16.83	17.55	17.50	18.82	18.12	19.46	20.18
	3H	16.28	17.48	16.91	18.12	18.88	19.97	21.17	20.60	21.81	22.57
	4H	16.71	17.84	17.35	18.50	19.27	21.13	22.27	21.78	22.93	23.70
	6H	16.94	18.00	17.60	18.67	19.45	22.31	23.37	22.98	24.04	24.82
	8H	16.99	18.00	17.66	18.68	19.47	22.91	23.92	23.58	24.61	25.39
	12H	17.00	17.96	17.67	18.65	19.46	23.54	24.51	24.22	25.19	26.01
4H	2H	15.78	16.92	16.43	17.57	18.34	17.85	18.99	18.50	19.64	20.41
	3H	17.40	18.37	18.06	19.06	19.85	20.51	21.48	21.18	22.17	22.96
	4H	17.95	18.84	18.63	19.54	20.36	21.83	22.71	22.51	23.41	24.23
	6H	18.29	19.07	18.99	19.79	20.62	23.18	23.96	23.88	24.68	25.51
	8H	18.37	19.10	19.07	19.82	20.66	23.87	24.60	24.57	25.32	26.16
	12H	18.40	19.06	19.12	19.81	20.65	24.62	25.29	25.35	26.03	26.87
8H	4H	18.62	19.35	19.32	20.07	20.91	21.98	22.71	22.68	23.43	24.27
	6H	19.12	19.74	19.86	20.50	21.34	23.47	24.09	24.20	24.85	25.69
	8H	19.28	19.83	20.02	20.59	21.45	24.28	24.84	25.03	25.60	26.46
	12H	19.37	19.86	20.11	20.61	21.53	25.19	25.69	25.94	26.44	27.35
12H	4H	18.79	19.45	19.51	20.20	21.04	21.97	22.63	22.69	23.37	24.22
	6H	19.39	19.94	20.13	20.71	21.56	23.49	24.04	24.23	24.80	25.66
	8H	19.62	20.12	20.37	20.87	21.79	24.35	24.84	25.10	25.59	26.51